## **Bachelor of Science in DATA SCIENCE (Starting Spring 2022)**

General Education Core:			BS major core requirements:			<u>Data Science major electives</u> (take any 2 courses from the list below)		
Required Core:			Computer Systems Fundamentals:			BUS 2339	Financial Management	3
ENG 1101	English Comp 1	3	CST 1100	Introduction to Computer Systems	3	BUS 2341	Financial Forecasting	3
ENG 1121	English Comp 2	3	CST 1101	Problem Solving with Computer	3	ECON 1101	Macroeconomics	3
Any	Quantitative Reasoning	3-4	1	Programming		ECON 2301	Money and Banking	3
Any	Life and & Physical Science	3-4	CST 1201	Programming Fundamentals	3	MED 2400	Medical Informatics	3
	-						Fundamentals	
Flexible Core:			CST 1204	Database Fundamentals	3	MED 4229	Healthcare Databases	3
Any	World Culture and lobal Issues	3	CST 2312	Information and Data Management I	3	CET 4925	Internet of Things	3
Any	US Experience and Diversity	3	CST 2309	Web Programming I	3	CET 4973	Introduction to Artificial	3
Any	Creative Expression	3	CST 2402	Introduction to Data Science	3		Intelligence	3
Any	Individual and Society	3	CST 2412	Data Security, Privacy and Ethics	3	MAT 3672	Probability and Statistics II	3
Any	Scientific World	3		Sub-Total	24	MAT 4672	Computational Statistics with	4
Any	Additional 6 <sup>th</sup> course	3					Applications	
College Option:			<b>Data Science Core:</b>			PHY 3600ID	*Machine Learning for Physics	3
Any	Speech / Oral Communication	3	CST 3512	Information and Data Management II	3		and Astronomy	
Any	Interdisciplinary Course	3	CST 3502	Data Mining	3		Major Electives Sub-Total	<u>6-7</u>
Any	Additional Liberal Arts course I	3	CST 3513	Object Oriented Programming	3			
Any	Additional Liberal Arts course II	3	CST 3602	Data Visualization	3			
	Sub-Total	42-44	CST 3650	Data Structures	3			
Program General Education Requirements:			CST 4702	Machine Learning Fundamentals	3	*Specific course indicates double duty course, i.e.		
MAT 1475	Calculus I	4	CST 4714	Database Administration	3	program degree requirement that also meet general education requirements. Choose another elective to		
			CST 3624	Introduction to Non-Relational				
			CS1 3024	(NoSQL) Technologies	3	complete 120 c	eredits if choosing to take double dut	y.
MAT 1575	Calculus II	4	CST 4802	Information Retrieval	3			
MAT 2572	Probability and Statistics I	4	CST 4802 CST 4812	Natural Language Processing	3			
MAT 2440	Discrete Structures and	3	CS1 4012	Sub-Total	27			
101741 2440	Algorithms I	3		Sub-10tai	21			
MAT 2580	Introduction to Linear Algebra	3	CST 4900	Internship	3			
171111 2300	Sub-Total	18	251 4700	Sub-Total	3			
	Sub-10tai		Sub-10tai					
General Education Total 60-			BS Major Core Total 54			<u>Total Credits: 120 – 123</u>		